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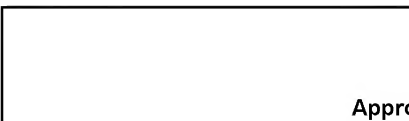
EXECUTIVE PRESENTATION

AUTOMATIC DATA PROCESSING SYSTEM STUDY PHASE I

08 APRIL 1981

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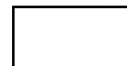
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PURPOSE

- STUDY DO ADPS REQUIREMENTS
- DETERMINE IF SAFE IS COMPATIBLE
- PROVIDE PRELIMINARY BUDGETARY ANALYSIS



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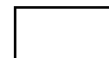
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METHODOLOGY

- REVIEWED DOCUMENTATION
- MET WITH IMS AND ODP PERSONNEL
- OBSERVED DO ADPS
- COMPARED SAFE WITH DO ADPS
- MEASURED AREAS OF OVERLAP

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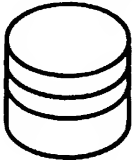

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WHAT IS DO ADPS?

FIELD (GEOGRAPHIC AREAS)		HEADQUARTERS					
		ANALYST PROCESSING		COMPUTER PROCESSING			
		FIRST	SECOND				
ELECTRICAL MESSAGES:		<ul style="list-style-type: none">● REVIEW● EDIT● INDEX● ABSTRACT● FILE	<ul style="list-style-type: none">● NEW● ADD● REPLACE● PURGE● SECURITY	LOADING AND MAINTENANCE  ACCESS			
<ul style="list-style-type: none">● CABLES● TELEPOUCH							
HARDCOPY DOCUMENTS:							
<ul style="list-style-type: none">● DISPATCHES● EXTRA SENSITIVE DOCUMENTS● MISCELLANEOUS							



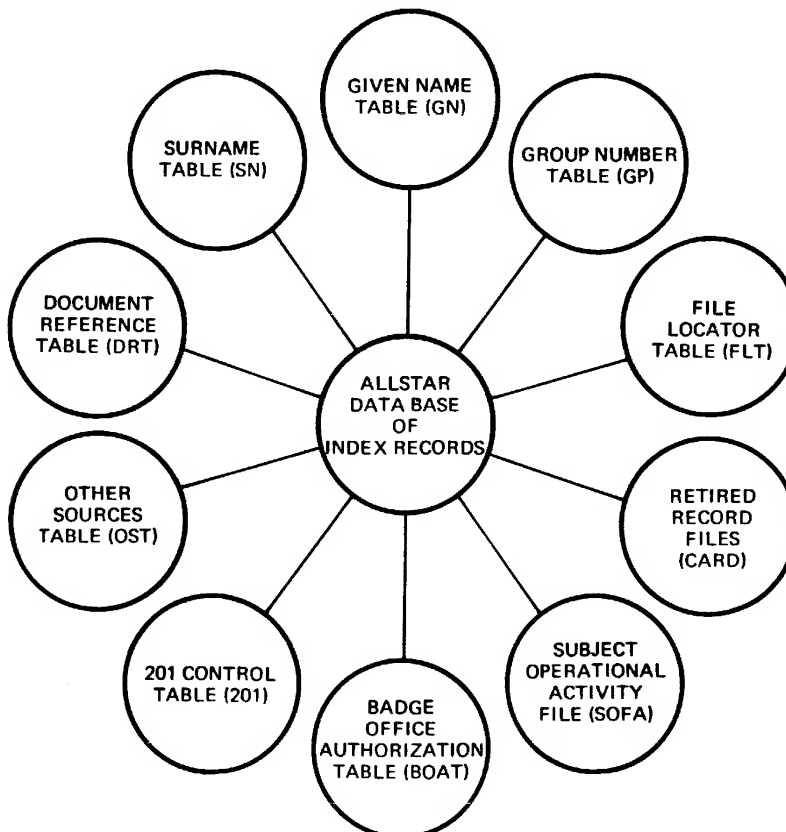
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WHAT IS DO ADPS?



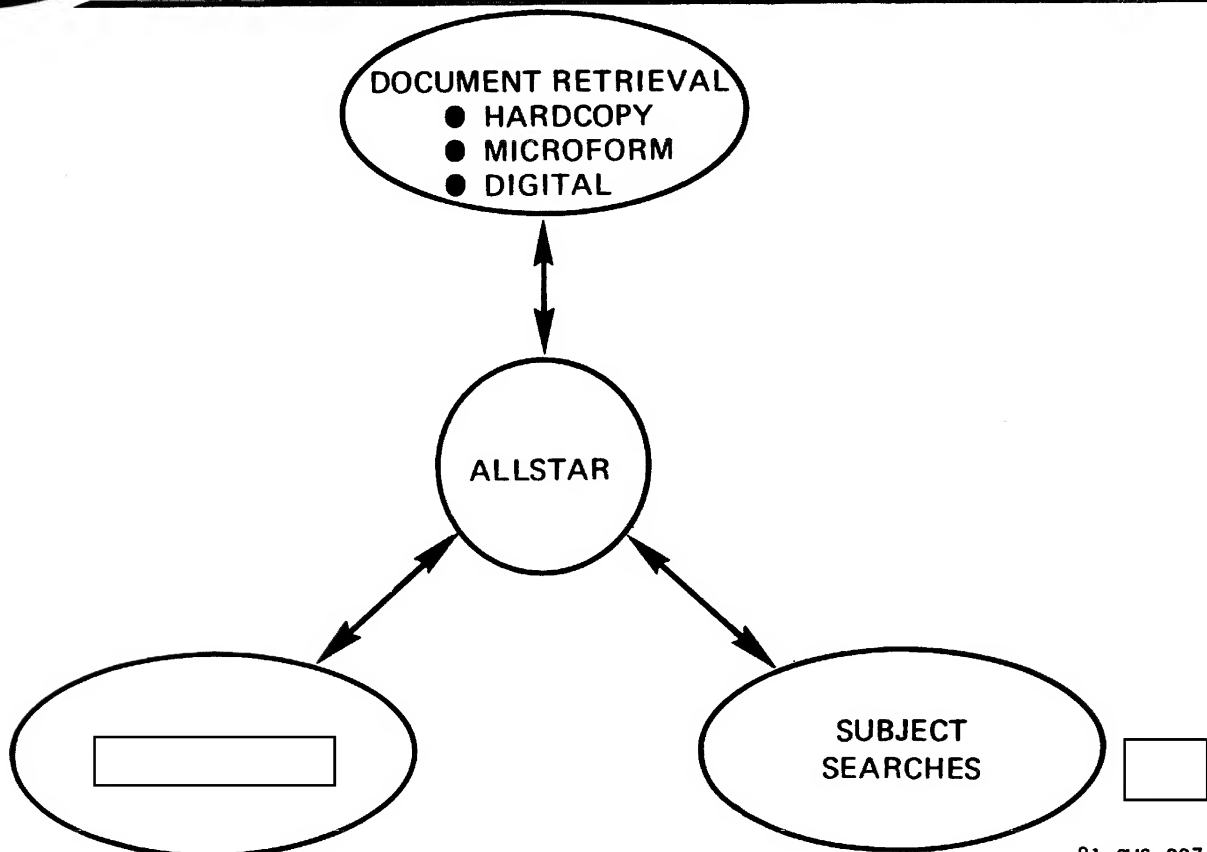
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MAIN USES OF ALLSTAR DATA BASE



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WHAT IS SAFE?

- SUPPORT TO ANALYST'S FILE ENVIRONMENT (SAFE)
- JOINT CIA (NFAC) AND DIA
-
- MAY 1980 – NOVEMBER 1984
- ELECTRONIC PROCESSING, STORAGE, AND SEARCHING OF INTELLIGENCE DATA
- LATEST INFORMATION TECHNOLOGY
- TOTAL SYSTEMS APPROACH

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WHAT IS SAFE?

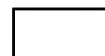
SAFE WILL:

- SPEED DISTRIBUTION
- SUPPORT INTELLIGENCE ANALYSTS
- PROVIDE GATEWAYS
- INCREASE COMMUNICATION AMONG INTELLIGENCE ANALYSTS WORLDWIDE
- REDUCE PAPER-HANDLING
- INCREASE PRODUCTIVITY



SAFE FEATURES:

- ELECTRONIC MAIL
- AUTOMATIC MESSAGE PROCESSING
- ELECTRONIC INDEX AND SEARCH
- ELECTRONIC FILES BUILDING
- MULTI-TERMINAL ON-LINE ACCESS
- ELECTRONIC MAINTENANCE OF PRIVATE AND CENTRAL FILES
- SECURE TELECONFERENCING



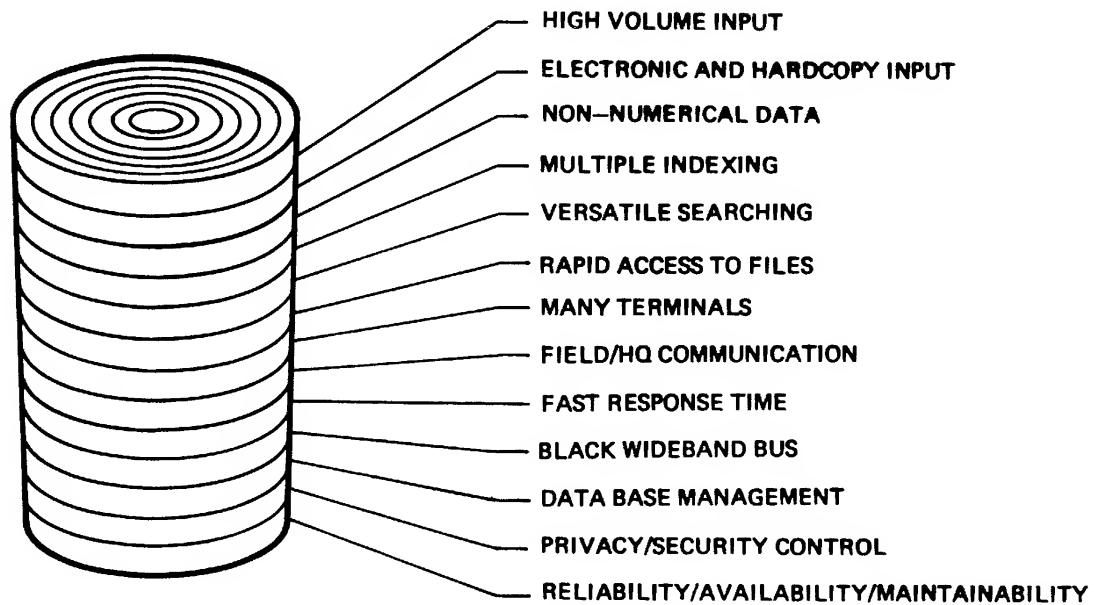
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SAFE AND DO ADPS HAVE SIMILAR FUNCTIONAL REQUIREMENTS

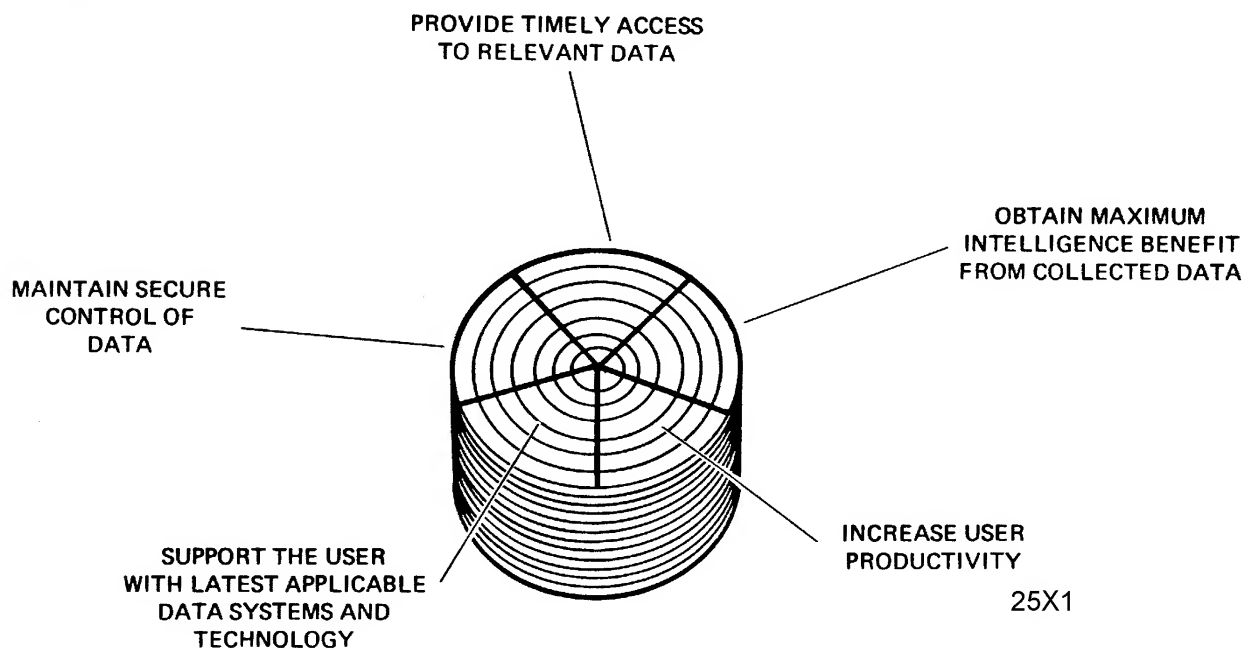


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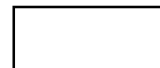
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SAFE AND DO ADPS SHARE THE SAME SERVICE GOALS



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PRINTED
ELECTRICAL
HIGH VOLUME RATE
ALPHANUMERIC BUT
MOSTLY NON-NUMERICAL

**CENTRAL CATALOGS
DISTRIBUTED
PRIVATE
FREE TEXT
STRUCTURED**

DBMS
FILE MAINTENANCE
SEARCH AND RETRIEVE
AUTOMATIC INDEXING
INTEREST PROFILE
PROCESSING
PERFORMANCE MONITORING
SYSTEM MONITORING

DESIGNED IN SAFE	REQUIRED FOR DO
✓	✓
✓	✓
✓	✓
✓	✓
✓	✓
✓	✓
✓	✓
✓	✓
✓	✓
✓	✓
✓	✓
✓	✓
✓	✓

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FREE TEXT
WORDS AND PHRASES
PROXIMITY
DON'T CARES
NUMBERS AND RANGES
BOOLEAN COMBINATIONS
NAME TRACES
SPELLING VARIATIONS

	DESIGNED IN SAFE	REQUIRED FOR DO
	✓	✓
	✓	✓
	✓	✓
	✓	✓
	✓	✓
	✓	✓
	NO	✓
	NO	✓

✓ SIMILAR CAPABILITY REQUIRED

X REQUIRED, BUT MAYBE DIFFERENT

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PRELIMINARY COMPARATIVE ANALYSIS OF SAFE AND DO FUNCTIONAL REQUIREMENTS (CONT)

	DESIGNED IN SAFE	REQUIRED FOR DO		DESIGNED IN SAFE	REQUIRED FOR DO
USER INTERFACE			ARCHITECTURE		
TERMINALS (100 OR MORE)	✓	✓	TRI-LEVEL:	✓	TBD
RAPID RESPONSE RATE	✓	X	GLOBAL	✓	X
CONCURRENT ACCESS	✓	✓	USER SUPPORT	✓	TBD
USER LANGUAGE	✓	✓	WORKSTATION	✓	✓
SPLIT SCREEN	✓	✓	HARDWARE		
HUMAN FACTORS	✓	✓	HIGH AVAILABILITY	✓	✓
WORD PROCESSING			PROVEN RELIABILITY	✓	✓
OPTICAL READ (OCR)	✓	✓	COMMUNICATIONS		
COMPOSE	✓	✓	BLACK WIDEBAND COMMUNICATIONS	✓	✓
EDIT	✓	✓	CABLE TV TECHNOLOGY	✓	✓
PRINT	✓	✓	BUS AND PROCESSOR	✓	✓
STORE	✓	✓	INTERFACE UNITS	✓	✓
REPORT PRODUCTION	✓	✓	BIDIRECTIONAL	✓	✓
SECURITY			ROOM FOR TERMINAL GROWTH	✓	✓
SOFTWARE CONTROL	✓	✓	MESSAGE SWITCHING	✓	✓
AUDIT TRAILS	✓	✓	GATEWAYS TO OTHER SYSTEMS	✓	X
COMPARTMENTATION	✓	X	AND NETWORKS	✓	
MONITORING	✓	✓	CABLE DISSEMINATION	✓	✓
END-TO-END ENCRYPTION	✓	✓	INTERFACE (CDS)	✓	✓
TEMPEST-QUALIFIED	✓	✓			
REMOTE DEVICES	✓	✓			

LEGEND:

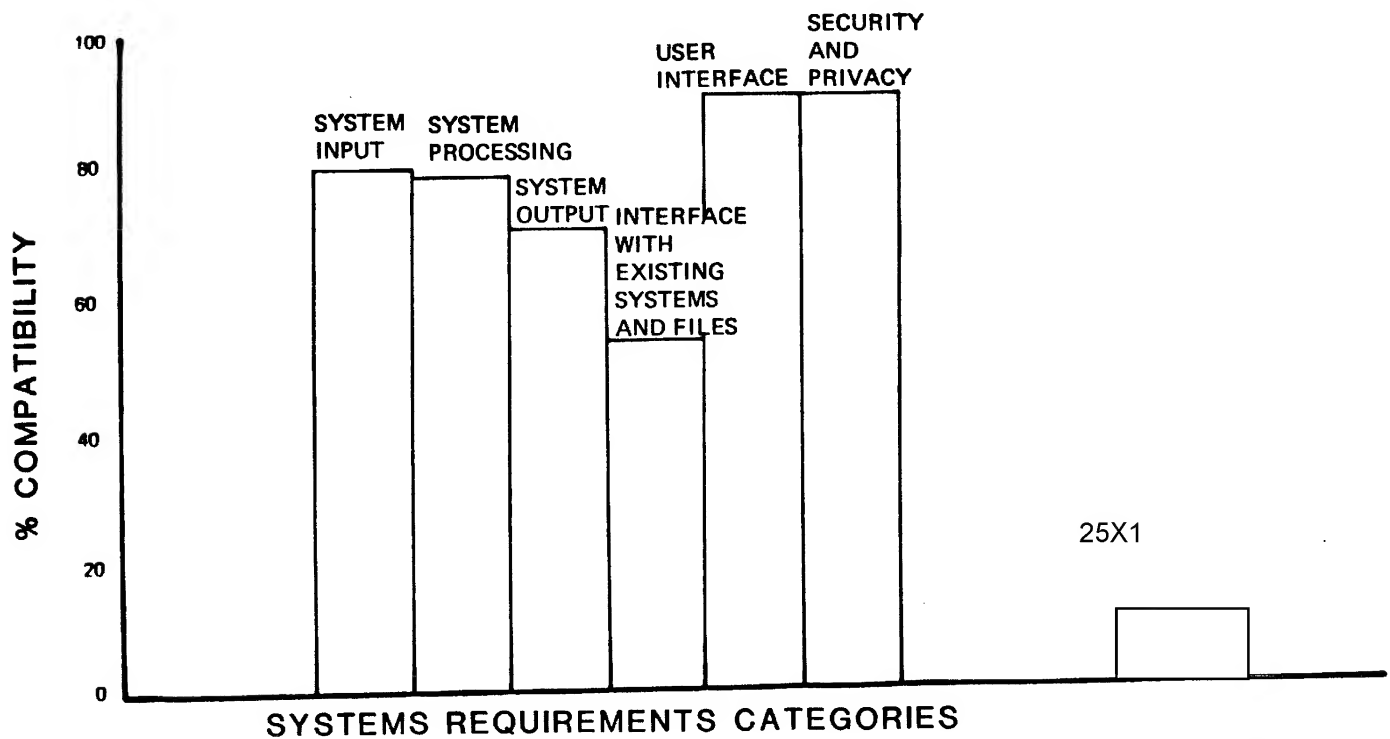
- ✓ SIMILAR CAPABILITY REQUIRED
X REQUIRED, BUT MAYBE DIFFERENT

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HOW COMPATIBLE IS DO ADPS WITH SAFE?

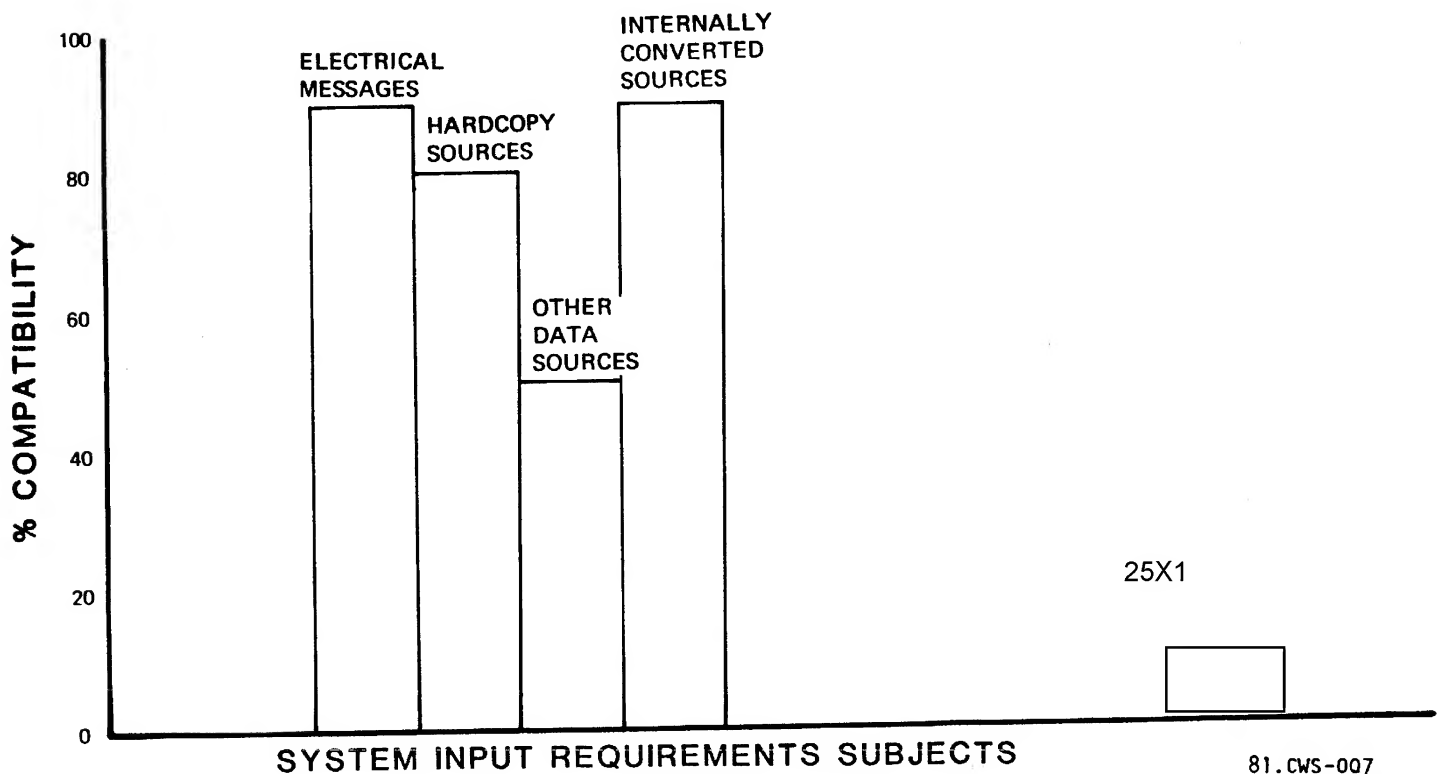


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SAFE % COMPATIBILITY FOR SYSTEM INPUT



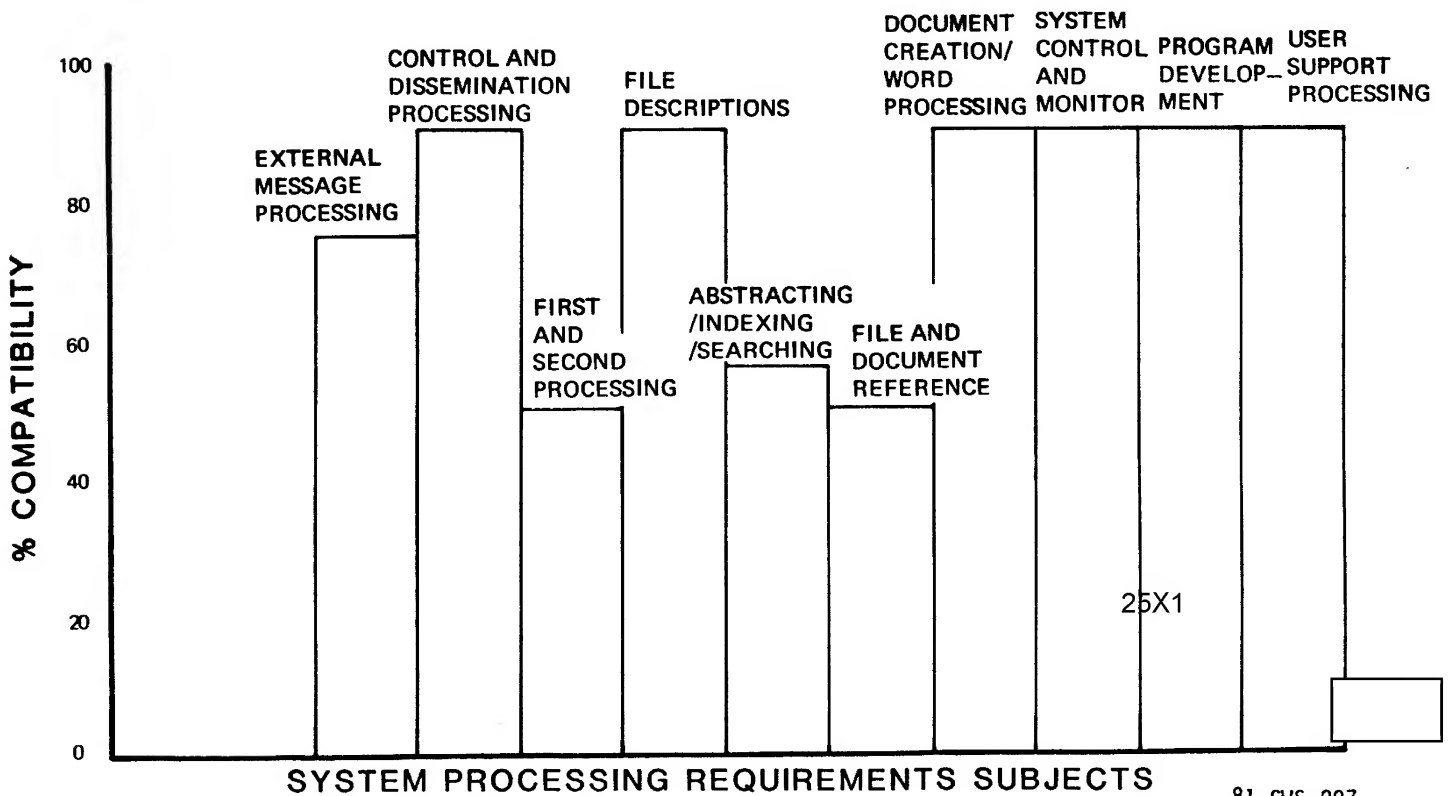
SYSTEM INPUT REQUIREMENTS SUBJECTS

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SAFE % COMPATIBILITY FOR SYSTEM PROCESSING



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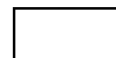
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COST VARIABLES

PROGRAMMATIC	NOMINAL TRACK?	FASTER TRACK?	
HARDWARE	IBM?	BURROUGHS?	BOTH?
PERSONNEL	IN-HOUSE?	CONTRACT?	
EXISTING ADPS PACKAGES	USE AS IS?	MODIFY?	
SAFE TRANSPORTABILITY	% SYSTEM DESIGN?	% SOFTWARE?	% EQUIPMENT

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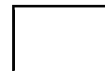
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ASSUMED GFE/GFI FOR BUDGETARY ANALYSIS

- "RED" IBM PROCESSOR WITH ALLSTAR SYSTEM
- BLACK WIDEBAND COMMUNICATIONS SYSTEM
- TERMINALS
- COMET II SYSTEM
- RECORDS MANAGEMENT SYSTEM
- AIMS ELECTRONIC MAIL
- CAMS 2 (DBMS)
- SAFE

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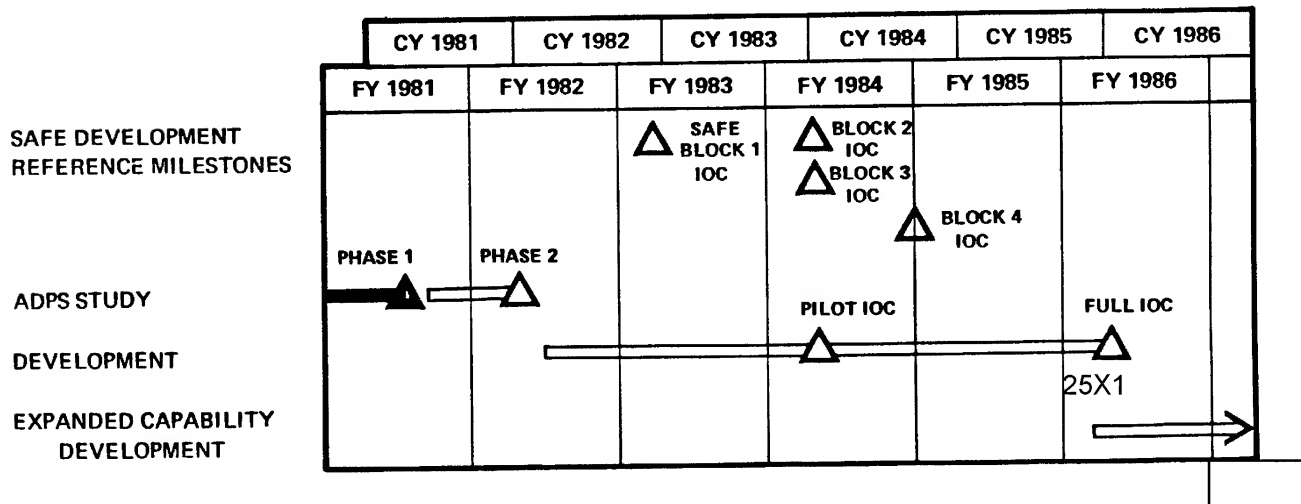


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BASELINE PROGRAM SCHEDULE

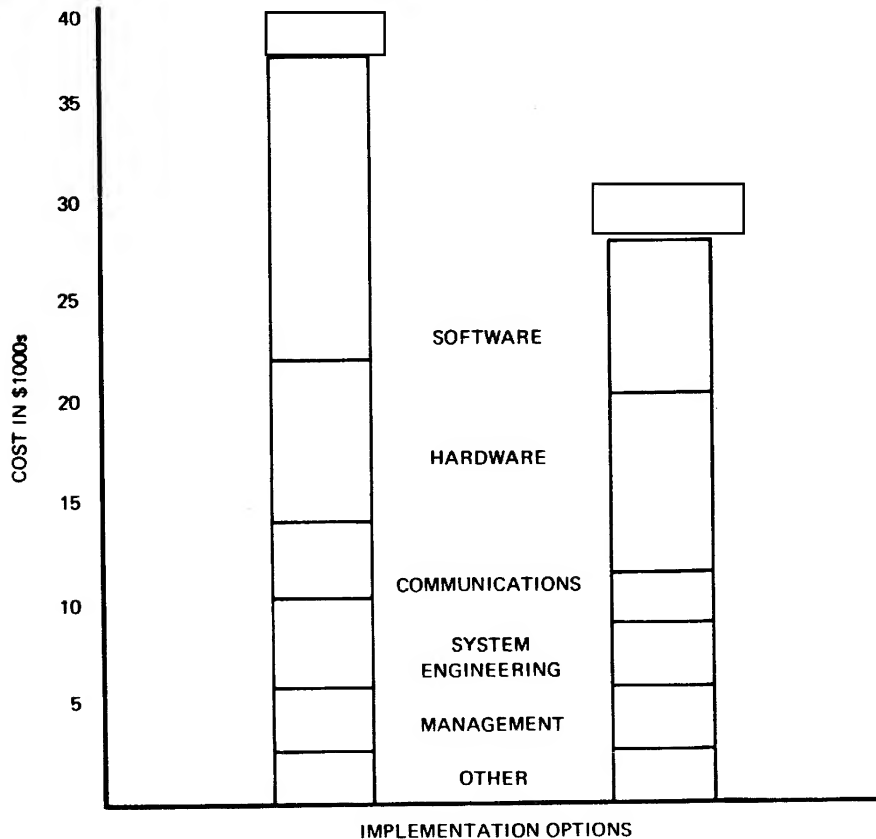


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BUDGETARY COST SUMMARY



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IMPLEMENTATION OPTIONS

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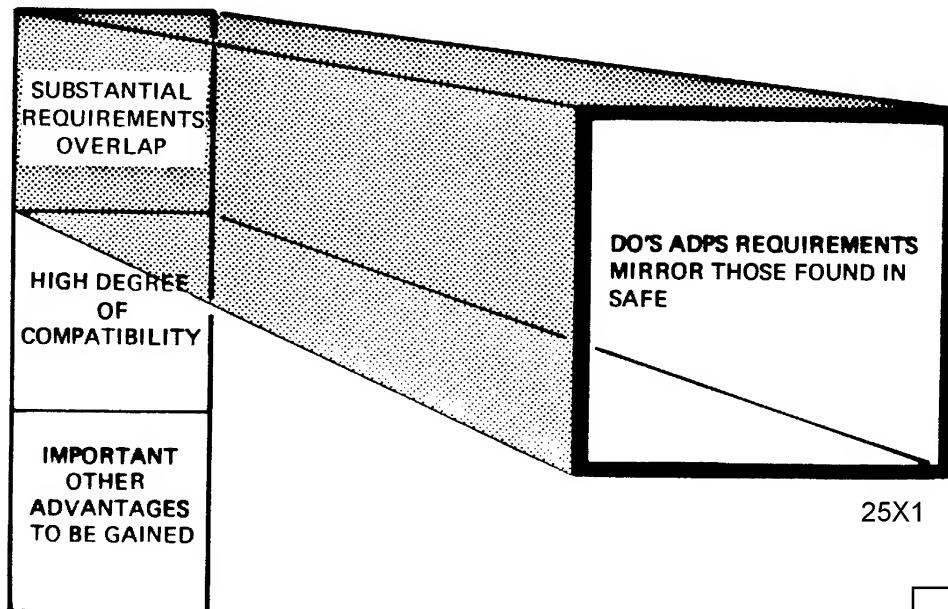
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PHASE I CONCLUSIONS



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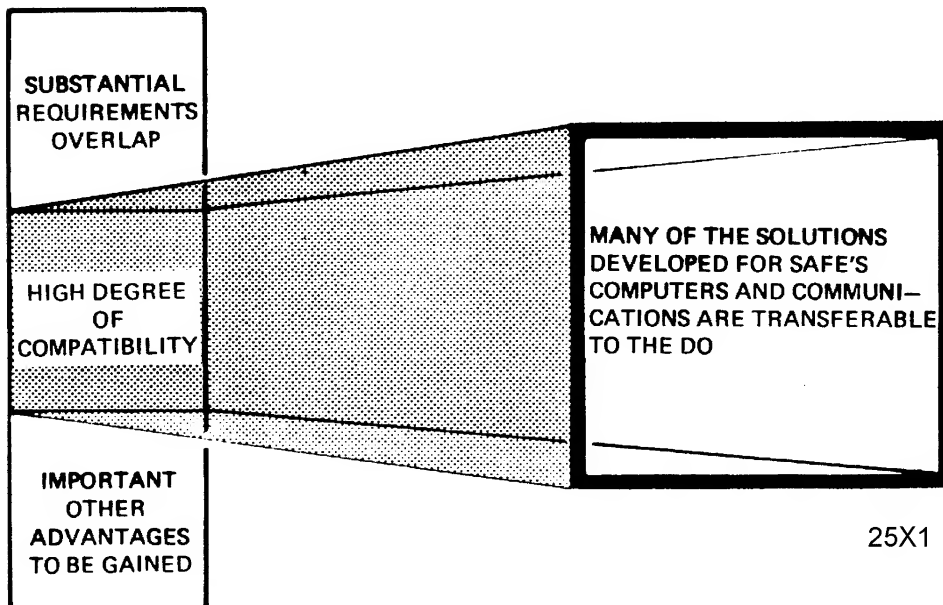


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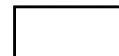
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PHASE I CONCLUSIONS



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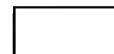
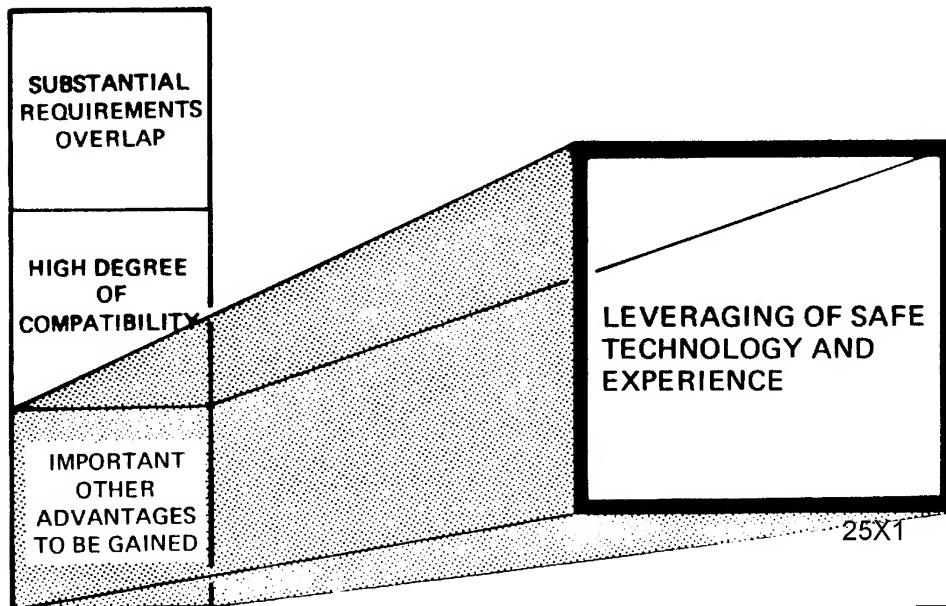


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PHASE I CONCLUSIONS



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IN SUMMARY

- SUBSTANTIAL REQUIREMENTS OVERLAP
- HIGH DEGREE OF COMPATIBILITY
- OPPORTUNITY TO LEVERAGE SAFE FOR DO BENEFIT
- PHASE II IS RECOMMENDED

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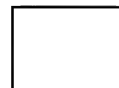
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AUTOMATIC DATA PROCESSING SYSTEM

PROPOSED STUDY PHASE II

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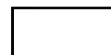
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MAJOR TASKS

- | | | |
|----------------|---|---|
| STUDY PHASE I | { | <ul style="list-style-type: none">● REQUIREMENTS● COMPATIBILITY● BUDGETARY ANALYSIS |
| STUDY PHASE II | { | <ul style="list-style-type: none">○ ARCHITECTURE○ IMPLEMENTATION PLAN |

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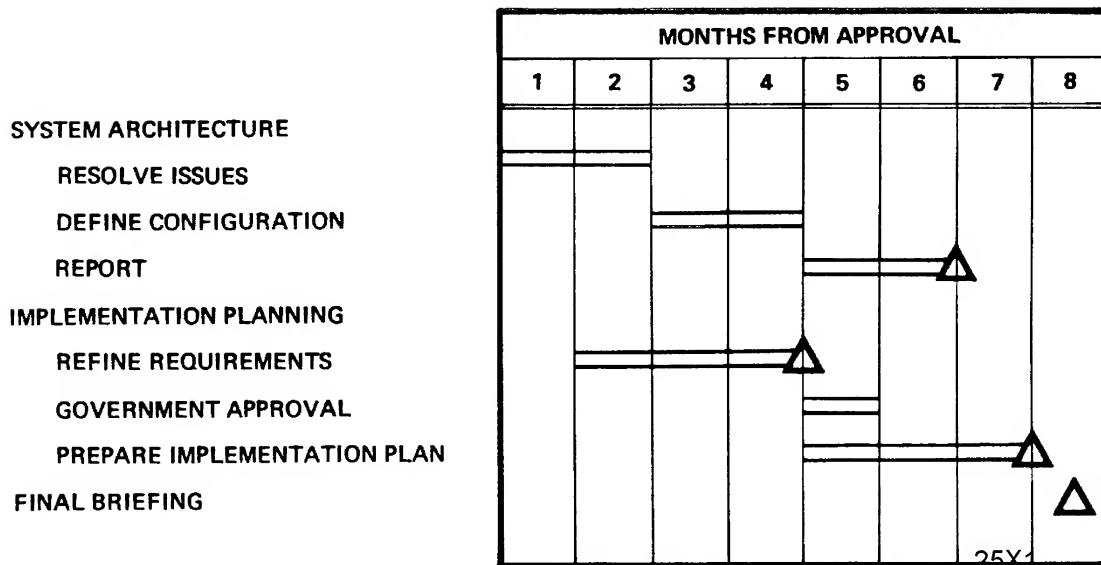


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PHASE II-SCHEDULE



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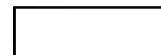
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HARDWARE AREAS OF SPECIAL INTEREST

- IBM AND/OR BURROUGHS
 - SOFTWARE TRANSPORTABILITY
 - OPERATIONS AND MAINTENANCE
- TERMINALS
 - IBM
 - DELTA DATA
 - WANG

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DEVELOPMENTAL AREAS OF SPECIAL INTEREST

- INTEGRATION OF DEVELOPMENT SYSTEMS
- DATA BASE
 - CONVERSION
 - CENTRALIZATION
- FACILITIES
- SECURITY IMPLEMENTATION
- UNINTERRUPTED OPERATIONAL CUTOVER
- CRYPTO LEAD TIME

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THE DO ADPS CONCEPTS

- TOTAL SYSTEM APPROACH
- INCORPORATE BEST FEATURES
 - EXISTING DO SYSTEMS
 - DEVELOPMENT DO SYSTEMS
 - SAFE
 - OTHER
- INCREASE EFFICIENCY AND PRODUCTIVITY
 - ACCURACY
 - CONTROL
 - SECURITY
 - RESPONSE
 - FLEXIBILITY
- PROVIDE FRAMEWORK FOR GROWTH

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